

## AUTHOR INDEX TO VOLUME 134

- Aerts, P.J.C., see O. Visser 134 (1987) 34
- Agranovich, V.M. and I.B. Talanina, Impurity-induced gyrotropy in spectral regions near host exciton resonances 134 (1987) 525
- Alpert, B., see C.A. Royer 134 (1987) 454
- Amano, T., see T. Nakanaga 134 (1987) 195
- Anderson, A.G., J.C. Calabrese, W. Tam and I.D. Williams, Thiourea inclusion complexes of organometallics: optically non-linear materials 134 (1987) 392
- André, J.-J., see Ph. Turek 134 (1987) 471
- Anselment, M., R.S. Smith, E. Daykin and L.F. DiMauro, Optical emission studies on graphite in a laser/vaporization supersonic jet cluster source 134 (1987) 444
- Apkarian, V.A., see M.E. Fajardo 134 (1987) 51
- Apkarian, V.A., see L. Wiedeman 134 (1987) 55
- Arepalli, S., see D.C. Robie 134 (1987) 579
- Aslanov, L.A., see A.P. Suisalu 134 (1987) 617
- Astashkin, A.V., S.A. Dikanov, Yu.D. Tsvetkov and M.G. Goldfeld, Comparative analysis of ESE modulation from oxidized chlorophyll a and P700 centres in chloroplasts containing  $^{15}\text{N}$  nuclei 134 (1987) 438
- Avarmaa, R.A., see A.P. Suisalu 134 (1987) 617
- Bacci, M., Absorption band shape in five-coordinated copper(II) complexes: influence of the Jahn-Teller effect 134 (1987) 143
- Bagchi, B., On the breakdown of the most probable distribution for Mayer clusters 134 (1987) 121
- Bailey, R.T., F.R. Cruickshank, D. Pugh and I.J.M. Weir, The thermal diffusivity and thermal conductivity coefficient of methanol vapour 134 (1987) 311
- Baker, G.J., B. Brocklehurst and I.R. Holton, Ion-recombination luminescence of alkane solutions excited by 15–150 eV photons 134 (1987) 83
- Ballard, R.E., J. Jones, D. Read, A. Inchley and M. Cranmer, The He(I) photoelectron spectra of aqueous solutions of calcium salts 134 (1987) 177
- Baronavski, A.P., see S.W. McElvany 134 (1987) 214
- Bartlett, R.J., see J. Noga 134 (1987) 126
- Bates, G.S., E.E. Burnell, G.L. Hoatson, P. Palffy-Muhoray and A. Weaver, Orientational order of rod- and disk-like solutes in the nematic liquid crystal 5CB 134 (1987) 161
- Bawagan, A.O., see C.E. Brion 134 (1987) 76
- BelBruno, J.J., see G.A. Raiche 134 (1987) 341
- Ben-Shaul, A., see M. Silverberg 134 (1987) 491
- Berg, M., see C.A. Walsh 134 (1987) 268
- Bernier, A. and Ph. Millié, Potential energy surfaces of  $\text{HgH}_2$  134 (1987) 245
- Bilmes, G.M., J.O. Tocho and S.E. Braslavsky, Laser-induced optoacoustic studies of the photoisomerization of the laser dye 3,3'-diethyloxadiazocarbocyanine iodide (DODCI) 134 (1987) 335
- Binkley, J.S., see C.M. Rohlfing 134 (1987) 110
- Bischoff, J.L., see K.S. Pitzer 134 (1987) 60
- Bishop, D.M. and B. Lam, Vibrational polarizabilities for  $\text{H}_2^+$ ,  $\text{H}_2$  and  $\text{N}_2$  134 (1987) 283

- Biswas, S.C., S. Ray and A. Podder, Molecular configuration of  $\alpha$ -fural 134 (1987) 541
- Bjerre, N. and H. Helm, High-resolution laser spectroscopy of  $H_2$  in a fast beam 134 (1987) 361
- Blin, N., see K.A. Sahetchian 134 (1987) 156
- Blinder, S.M., Time-dependent WKB expansion for the non-relativistic Coulomb propagator 134 (1987) 288
- Bossard, A.R., G. Paraskevopoulos and D.L. Singleton, The rate constant of the reaction  $OD + DNO_3$ . Pressure dependence and kinetic isotope effect 134 (1987) 583
- Braslavsky, S.E., see G.M. Bilmes 134 (1987) 335
- Brillante, A., K. Strössner and K. Syassen, Effect of pressure on the luminescence of 9,10-dichloroanthracene crystals 134 (1987) 331
- Brion, C.E., A.O. Bawagan and K.H. Tan, The argon 3s photoelectron satellite spectrum at high resolution ( $h\nu = 60-170$  eV) 134 (1987) 76
- Brocklehurst, B., see G.J. Baker 134 (1987) 83
- Browne, P.G., see C.E. Little 134 (1987) 560
- Burnell, E.E., see G.S. Bates 134 (1987) 161
- Calabrese, J.C., see A.G. Anderson 134 (1987) 392
- Čársky, P., see P. Hobza 134 (1987) 418
- Čársky, P., see J. Sauer 134 (1987) 553
- Cavanagh, R.R., see E.J. Heilweil 134 (1987) 181
- Chachaty, C., see K.A. Sahetchian 134 (1987) 156
- Chachaty, C., see F. Zabel 134 (1987) 433
- Chakraborty, D.K., see J. Tellinghuisen 134 (1987) 565
- Chandra, H., S.P. Mishra and M.C.R. Symons, Electron spin resonance studies of the effects of ionizing radiation on cyanamide and dimethyl cyanamide 134 (1987) 307
- Chen, K. and C. Pei, Kinematic constraints on the final-state interaction in photodissociation processes. Numerical results on the rotational population distributions of HS photofragments 134 (1987) 259
- Chidichimo, G., see D. Imbardelli 134 (1987) 96
- Chou, M.Y., see W.D. Knight 134 (1987) 1
- Chowdhury, M., see M. Vala 134 (1987) 610
- Cioslowski, J., Graph theoretical approach to the topological spin Hamiltonian applied to conjugated molecules 134 (1987) 507
- Clemenger, K., see W.D. Knight 134 (1987) 1
- Cohen, M.L., see W.D. Knight 134 (1987) 1
- Conte, J.C. and J.M.G. Martinho, Comparison between the kinetics of convolution and of differential equations 134 (1987) 350
- Cranmer, M., see R.E. Ballard 134 (1987) 177
- Crosley, D.R., see N.L. Garland 134 (1987) 189
- Cruikshank, F.R., see R.T. Bailey 134 (1987) 311
- Dagata, J.A., D.W. Squire, C.S. Dulcey, D.S.Y. Hsu and M.C. Lin, MPI/MS detection of SiF and SiF<sub>2</sub> radicals produced from the reaction of F<sub>2</sub> and NF<sub>3</sub> with silicon 134 (1987) 151
- Dalvi, A.G.I., see M. Kumar 134 (1987) 102
- Danilova, S.V., see O.V. Gritsenko 134 (1987) 423
- Das Sarma, S., see K.E. Khor 134 (1987) 43
- Daykin, E., see M. Anselment 134 (1987) 444
- Declémy, A., see C. Rullière 134 (1987) 64

De Heer, W.A., see W.D. Knight	134 (1987) 1
De Sagey, G.T., see O.L. Malta	134 (1987) 495
Diercksen, G.H.F., see P. Pyykkö	134 (1987) 575
Dikanov, S.A., see A.V. Astashkin	134 (1987) 438
DiMauro, L.F., see M. Anselment	134 (1987) 444
Doubleday Jr., C., see M.B. Zimmt	134 (1987) 549
Dulcey, C.S., see J.A. Dagata	134 (1987) 151
Engelhardt, G., see A. Samoson	134 (1987) 589
Ermler, W.C., see R.B. Ross	134 (1987) 115
Ewing, D.W. and G.V. Pfeiffer, Structures of C <sub>5</sub>	134 (1987) 413
Eyler, J.R., see S.W. McElvany	134 (1987) 214
Fajardo, M.E. and V.A. Apkarian, Stimulated radiative dissociation and gain measurements of Xe <sub>2</sub> Cl in solid xenon	134 (1987) 51
Fajardo, M.E., see L. Wiedeman	134 (1987) 55
Fantucci, P., see G. Pacchioni	134 (1987) 407
Fayer, M.D., see C.A. Walsh	134 (1987) 268
Fearey, B.L., see J.K. Gillie	134 (1987) 316
Felker, P.M. and G.V. Hartland, Fourier transform coherent Raman spectroscopy	134 (1987) 503
Ferrett, T.A., M.N. Piancastelli, D.W. Lindle, P.A. Heimann, L.J. Medhurst, S.H. Liu and D.A. Shirley, Resonance effects on the inner-valence levels of SF <sub>6</sub> in the photon-energy range 52–72 eV	134 (1987) 146
Fiechter, S., see A. Fojtik	134 (1987) 477
Finckh, P., see H. Heitele	134 (1987) 273
Fojtik, A., H. Weller, S. Fiechter and A. Henglein, Preparation of colloidal silicon and preliminary photochemical experiments	134 (1987) 477
Freedman, T.B., see L.A. Nafie	134 (1987) 225
Freedman, T.B., see C.G. Zimba	134 (1987) 233
Freund, H.-J. and C.-M. Liegener, Autoionization of CO after C 1s → 2π* excitation: a comparison with photoemission and Auger decay	134 (1987) 70
Friedrich, J., see W. Köhler	134 (1987) 200
Friedrich, J., see J. Meiler	134 (1987) 263
Gallhuber, E., see H. Yersin	134 (1987) 497
Garland, N.L. and D.R. Crosley, Collisional quenching of CH A <sup>2</sup> Δ, v' = 0 at 1300 K	134 (1987) 189
Geertsen, J., Nuclear spin–spin coupling constants in a coupled-cluster polarization propagator approach	134 (1987) 400
George, T.F., see P.T. Leung	134 (1987) 375
Gies, M., see S.C. Liu	134 (1987) 133
Gillie, J.K., B.L. Fearey, J.M. Hayes, G.J. Small and J.H. Golbeck, Persistent hole burning of the primary donor state of photosystem I: strong linear electron–phonon coupling	134 (1987) 316
Giraudeau, A., see Ph. Turek	134 (1987) 471
Golbeck, J.H., see J.K. Gillie	134 (1987) 316
Goldfeld, M.G., see A.V. Astashkin	134 (1987) 438
Gordon, R.J., see D.C. Robie	134 (1987) 579
Grad, J., Y.J. Yan and S. Mukamel, Time-dependent self-consistent field approximation for semiclassical dynamics using Gaussian wavepackets in phase space	134 (1987) 291

- Gragued, K., see M. Larzillière 134 (1987) 467
- Green, J.L., A.R. Lacey and M.G. Sceats, Determination of the total hydration number of a LiCl cation-anion pair via collective proton motions 134 (1987) 385
- Greenblatt, G.D., H. Zuckermann and Y. Haas, OH production in the collision-free UV photolysis of aliphatic nitro compounds 134 (1987) 593
- Gritsenko, O.V., S.V. Danilova, N.U. Zhanpeisov, V.G. Malkin and G.M. Zhidomirov, On the evaluation of the correlation energy and the total non-relativistic Born-Oppenheimer energy for the water molecule 134 (1987) 423
- Guest, M.F., see I.H. Hillier 134 (1987) 403
- Gutman, I., Z. Marković and S. Marković, A simple method for the approximate calculation of Hosoya's index 134 (1987) 139
- Haas, Y., see G.D. Greenblatt 134 (1987) 593
- Hamaguchi, H., see J. Sue 134 (1987) 87
- Hartland, G.V., see P.M. Felker 134 (1987) 503
- Hayes, J.M., see J.K. Gillie 134 (1987) 316
- Hegarty, D., see O. Visser 134 (1987) 34
- Heilweil, E.J., R.R. Cavanagh and J.C. Stephenson, Population relaxation of CO( $v=1$ ) vibrations in solution phase metal carbonyl complexes 134 (1987) 181
- Heimann, P.A., see T.A. Ferrett 134 (1987) 146
- Heisel, F., J.A. Miehe and J. Rachidi, The dynamics of the intramolecular and orientational motions of pinacyanol 134 (1987) 379
- Heiss, A., see K.A. Sahetchian 134 (1987) 156
- Heitele, H., M.E. Michel-Beyerle and P. Finckh, Electron transfer through intramolecular bridges in donor/acceptor systems 134 (1987) 273
- Helm, H., see N. Bjerre 134 (1987) 361
- Henglein, A., see A. Fojtik 134 (1987) 477
- Hensler, G., see H. Yersin 134 (1987) 497
- Herman, P.R., A.A. Madej and B.P. Stoicheff, Rovibronic spectra of Ar<sub>2</sub> and coupling of rotation and electronic motion 134 (1987) 209
- Hetherington III, W.M., E.W. Koenig and W.M.K.P. Wijekoon, CARS spectrum of O<sub>2</sub><sup>-</sup> formed by the trapping of photo-generated electrons on a ZnO surface 134 (1987) 203
- Hillier, I.H., M.A. Vincent, M.F. Guest and W. von Niessen, On the structure and valence ionization energies of *o*-benzyne 134 (1987) 403
- Hiramatsu, M., see R. Nakagaki 134 (1987) 171
- Hirata, Y., N. Mataga, Y. Mukai and Y. Koyama, Picosecond time-resolved absorption study of all-trans- and 9-cis-retinal: configurational relaxation in the triplet state 134 (1987) 166
- Hoatson, G.L., see G.S. Bates 134 (1987) 161
- Hobbs, R.H., see H.H. Michels 134 (1987) 571
- Hobza, P., B. Schneider, J. Sauer, P. Čársky and R. Zahradník, MP4 interaction energies and basis set superposition errors for the (H<sub>2</sub>)<sub>2</sub> dimer 134 (1987) 418
- Hobza, P., see J. Sauer 134 (1987) 553
- Hoff, A.J., see D.A. Hunter 134 (1987) 6
- Holton, I.R., see G.J. Baker 134 (1987) 83
- Hore, P.J., see D.A. Hunter 134 (1987) 6
- Hsu, D.S.Y., see J.A. Dagata 134 (1987) 151
- Hu, X.-M., see C.G. Zimba 134 (1987) 233
- Hunter, D.A., A.J. Hoff and P.J. Hore, Theoretical calculations of RYDMR effects in photosynthetic bacteria 134 (1987) 6

- Imbardelli, D. and G. Chidichimo, An investigation of the dynamics of  $\text{CH}_3\text{I}$  in a nematic mesophase by NMR linewidth analysis 134 (1987) 96
- Inchley, A., see R.E. Ballard 134 (1987) 177
- Iyer, R.M., see S.K. Kulshreshtha 134 (1987) 239
- Jackson, I.P. and J.W. White, Domain mobility and rotational tunnelling of hydrogen in graphite intercalates 134 (1987) 397
- Jameson, A.K. and C.J. Jameson, Gas-phase  $^{13}\text{C}$  chemical shifts in the zero-pressure limit: refinements to the absolute shielding scale for  $^{13}\text{C}$  134 (1987) 461
- Jameson, C.J., see A.K. Jameson 134 (1987) 461
- Jerschke, H.-G., see A. Samoson 134 (1987) 589
- Jones, J., see R.E. Ballard 134 (1987) 177
- Jortner, J., see D. Scharf 134 (1987) 502
- Kadam, R.M., see M. Kumar 134 (1987) 102
- Kamyshnyi, A.L., see A.P. Suisalu 134 (1987) 617
- Kemister, G., see J. Robles 134 (1987) 27
- Kern, C.W., see R.B. Ross 134 (1987) 115
- Khanra, B.C., see S. Modak 134 (1987) 39
- Khor, K.E. and S. Das Sarma, Simulation of self-diffusion on silicon surface using Stillinger-Weber potential 134 (1987) 43
- Khromov, I.E., see A.A. Stuchebrukhov 134 (1987) 251
- Kinoshita, S., N. Nishi and T. Kushida, Stochastic behavior of the dynamic Stokes shift in rhodamine 6G 134 (1987) 605
- Kirin, D. and G.S. Pawley, Pressure dependence of the low-frequency Raman spectra of 4,4'-difluorobenzophenone and 4,4'-dibromobenzophenone 134 (1987) 327
- Kitsopoulos, T., see D.C. Robie 134 (1987) 579
- Klopper, W. and W. Kutzelnigg, Möller-Plesset calculations taking care of the correlation cusp 134 (1987) 17
- Knight, W.D., W.A. de Heer, W.A. Saunders, K. Clemenger, M.Y. Chou and M.L. Cohen, Alkali metal clusters and the jellium model 134 (1987) 1
- Knowles, P.J., On the validity and applicability of the connected moments expansion 134 (1987) 512
- Koenig, E.W., see W.M. Hetherington III 134 (1987) 203
- Koffend, J.B., see M. Larzillière 134 (1987) 467
- Köhler, W. and J. Friedrich, Comments on the determination of dispersion in the kinetics of hole-burning reactions 134 (1987) 200
- Komorowski, L., Empirical evaluation of chemical hardness 134 (1987) 536
- Koyama, Y., see Y. Hirata 134 (1987) 166
- Kozankiewicz, B., The origin of delayed fluorescence in charge-transfer crystals: pyromellitic dianhydride-phenanthrene crystal 134 (1987) 323
- Kulshreshtha, S.K. and R.M. Iyer, A calorimetric study of low-spin  $\leftrightarrow$  high-spin transitions in bis(1,10-phenanthroline-2-carbaldehyde phenyl hydrazone)iron(II) diperchlorate and ditetrafluoroborate 134 (1987) 239
- Kumar, M., M.D. Sastry, A.G.I. Dalvi and R.M. Kadam, Chemically induced dynamic nuclear polarisation in thermally stimulated free radical reactions in gamma-irradiated  $\text{UO}_2^{2+}:\text{SrSO}_4$  phosphor 134 (1987) 102
- Kushida, T., see S. Kinoshita 134 (1987) 605
- Kutzelnigg, W., see W. Klopper 134 (1987) 17



Laaksonen, L., see P. Pyykkö	134 (1987) 575
Lacey, A.R., see J.L. Green	134 (1987) 385
Ladik, J., see S.C. Liu	134 (1987) 133
Lam, B., see D.M. Bishop	134 (1987) 283
Landman, U., see D. Scharf	134 (1987) 502
Larzillière, M., K. Gragued, J. Lerme and J.B. Koffend, <i>l</i> -type resonance and <i>l</i> -uncoupling in $N_2O^+$ : observation of a $\Sigma^+-^2\Phi$ transition	134 (1987) 467
Ledda, F., C. Muntoni, S. Serici and L. Pellerito, Ordering of metal atoms in the SnTe-Bi <sub>2</sub> Te <sub>3</sub> system	134 (1987) 545
Lerme, J., see M. Larzillière	134 (1987) 467
Leung, P.T. and T.F. George, Surface distortions of asymmetric line profiles	134 (1987) 375
Liegner, C.-M., see H.-J. Freund	134 (1987) 70
Lim, E.C., see R.J. Locke	134 (1987) 107
Lim, E.C., see V. Swayambunathan	134 (1987) 255
Lin, M.C., see J.A. Dagata	134 (1987) 151
Lindle, D.W., see T.A. Ferrett	134 (1987) 146
Lippmaa, E., see A. Samoson	134 (1987) 589
Littau, K.A., see C.A. Walsh	134 (1987) 268
Little, C.E. and P.G. Browne, Origin of the high-pressure bands of C <sub>2</sub>	134 (1987) 560
Liu, S.C., P. Otto, J. Ladik and M. Gies, A model study on the adsorption of hydrogen, oxygen and carbon monoxide on organic molecules and polymers	134 (1987) 133
Liu, S.H., see T.A. Ferrett	134 (1987) 146
Locke, R.J. and E.C. Lim, Intermolecular interactions between pairs of electronically excited molecules: evidence for "bicimer" formation in 1,1-di- $\alpha$ -naphthylmethane	134 (1987) 107
Lohse, U., see A. Samoson	134 (1987) 589
Madej, A.A., see P.R. Herman	134 (1987) 209
Maiti, A.K., Singlet-singlet electronic absorption and polarization in disubstituted naphthalenes	134 (1987) 450
Malkin, V.G., see O.V. Gritsenko	134 (1987) 423
Malta, O.L. and G.T. de Sagey, Far-infrared absorption by small metallic particles in a spherical oscillator well	134 (1987) 495
Marković, S., see I. Gutman	134 (1987) 139
Marković, Z., see I. Gutman	134 (1987) 139
Marks, A., J.N. Murrell and J.B. Pedley, The torsional barrier for the HCCH group	134 (1987) 12
Martinho, J.M.G., see J.C. Conte	134 (1987) 350
Mataga, N., see Y. Hirata	134 (1987) 166
Mataga, N., see H. Miyasaka	134 (1987) 480
Matsumura, C., see K. Sugawara	134 (1987) 347
McElvany, S.W., H.H. Nelson, A.P. Baronavski, C.H. Watson and J.R. Eyler, FTMS studies of mass-selected, large cluster ions produced by direct laser vaporization	134 (1987) 214
Medhurst, L.J., see T.A. Ferrett	134 (1987) 146
Meiler, J. and J. Friedrich, Dispersive relaxation and spectral diffusion in a doped alcohol glass: the influence of sample aging	134 (1987) 263
Metiu, H., see G. Wahnström	134 (1987) 531
Michel-Beyerle, M.E., see H. Heitele	134 (1987) 273
Michels, H.H., R.H. Hobbs and J.R. Peterson, Spectral intensity of the Hopfield helium continuum: an analysis of the ground state potential for He <sub>2</sub>	134 (1987) 571

Miehé, J.A., see F. Heisel	134 (1987) 379
Millié, Ph., see A. Bernier	134 (1987) 245
Mishra, S.P., see H. Chandra	134 (1987) 307
Miyasaka, H. and N. Mataga, On the properties of geminate electron-hole pairs in liquid cyclohexane produced by picosecond 266 nm simultaneous two-photon excitation	134 (1987) 480
Mizoguchi, N., Magnetic susceptibilities of Möbius annulenes	134 (1987) 371
Modak, S. and B.C. Khanra, Thermodynamics of chemisorption: induced surface segregation in binary alloys	134 (1987) 39
Morokuma, K. and H. Sugeta, Ab initio derivative calculation of vibrational circular dichroism	134 (1987) 23
Mukai, Y., see Y. Hirata	134 (1987) 166
Mukamel, S., see J. Sue	134 (1987) 87
Mukamel, S., see J. Grad	134 (1987) 291
Müller-Plathe, F., see P. Pyykkö	134 (1987) 575
Munn, R.W. and R.J. Phillips, Polarizability changes and partially ionic states in charge-transfer crystals	134 (1987) 279
Muntoni, C., see F. Ledda	134 (1987) 545
Murrell, J.N., see A. Marks	134 (1987) 12
Mutai, K., see R. Nakagaki	134 (1987) 171
Nafie, L.A. and T.B. Freedman, Vibrational circular dichroism theory: formulation defining magnetic dipole atomic polar tensors and vibrational nuclear magnetic shielding tensors	134 (1987) 225
Nafie, L.A., see C.G. Zimba	134 (1987) 233
Nagakura, S., see R. Nakagaki	134 (1987) 171
Nakagaki, R., M. Hiramatsu, K. Mutai, Y. Tanimoto and S. Nagakura, Photochemistry of bichromophoric chain molecules containing electron donor and acceptor moieties. External magnetic field effects upon the photochemistry of N-[ $\omega$ -( <i>p</i> -nitrophenoxy)alkyl]anilines	134 (1987) 171
Nakanaga, T. and T. Amano, The observation of the high-resolution infrared spectrum of SH <sub>3</sub> <sup>+</sup>	134 (1987) 195
Nakanaga, T., see K. Sugawara	134 (1987) 347
Narasimhan, L.R., see C.A. Walsh	134 (1987) 268
Natanson, G.A., Isomorphous Hamiltonian of a polyatomic system oscillating near a collinear reaction surface	134 (1987) 296
Natanson, G.A., Relationship between least-squares-surface and Celles-Darling's hyperspherical coordinates	134 (1987) 301
Nath, D.N., see M. Vala	134 (1987) 610
Nelson, H.H., see S.W. McElvany	134 (1987) 214
Nieuwpoort, W.C., see O. Visser	134 (1987) 34
Nishi, N., see S. Kinoshita	134 (1987) 605
Noga, J., R.J. Bartlett and M. Urban, Towards a full CCSDT model for electron correlation. CCSDT- <i>n</i> models	134 (1987) 126
Okamoto, H., see J. Sue	134 (1987) 87
Ortiz, J.V., Calculations on the vertical and adiabatic ionization energies of (H <sub>2</sub> S) <sub>2</sub>	134 (1987) 366
Otto, P., see S.C. Liu	134 (1987) 133

- Pacchioni, G. and P. Fantucci, Spin states and quenching of magnetism in naked and carbonylated nickel clusters 134 (1987) 407
- Palfy-Muhoray, P., see G.S. Bates 134 (1987) 161
- Paraskevopoulos, G., see A.R. Bossard 134 (1987) 583
- Pawley, G.S., see D. Kirin 134 (1987) 327
- Pedley, J.B., see A. Marks 134 (1987) 12
- Pei, C., see K. Chen 134 (1987) 259
- Pellerito, L., see F. Ledda 134 (1987) 545
- Peterson, J.R., see H.H. Michels 134 (1987) 571
- Pfeiffer, G.V., see D.W. Ewing 134 (1987) 413
- Phillips, R.J., see R.W. Munn 134 (1987) 279
- Piancastelli, M.N., see T.A. Ferrett 134 (1987) 146
- Pitzer, K.S., J.L. Bischoff and R.J. Rosenbauer, Critical behavior of dilute NaCl in H<sub>2</sub>O 134 (1987) 60
- Pitzer, R.M., see R.B. Ross 134 (1987) 115
- Podder, A., see S.C. Biswas 134 (1987) 541
- Prabhakaran, K., see C.N.R. Rao 134 (1987) 47
- Presser, N., see D.C. Robie 134 (1987) 579
- Pugh, D., see R.T. Bailey 134 (1987) 311
- Pyykkö, P., G.H.F. Dierksen, F. Müller-Plathe and L. Laaksonen, Fully numerical Hartree-Fock calculations on the third-row diatomics AlF, SiO, PN, CS, BCl, SH<sup>-</sup> and P<sub>2</sub> 134 (1987) 575
- Rachidi, J., see F. Heisel 134 (1987) 379
- Raiche, G.A. and J.J. BelBruno, On the kinetics of the reaction of Zn(<sup>1</sup>S) with N<sub>2</sub>O 134 (1987) 341
- Ranganathan, S. and B. Shizgal, Transient microwave conductivity of electrons in helium 134 (1987) 220
- Ranga Rao, G., see C.N.R. Rao 134 (1987) 47
- Rao, C.N.R., G. Ranga Rao and K. Prabhakaran, A combined XPS-UPS-EELS study of nitrogen adsorbed on clean and barium-promoted iron surfaces: the nature of the precursor to dissociation 134 (1987) 47
- Ray, S., see S.C. Biswas 134 (1987) 541
- Read, D., see R.E. Ballard 134 (1987) 177
- Rigny, R., see K.A. Sahetchian 134 (1987) 156
- Robie, D.C., S. Arepalli, N. Presser, T. Kitsopoulos and R.J. Gordon, Evidence for tunneling in the reaction O(<sup>3</sup>P) + HD 134 (1987) 579
- Robles, J. and G. Kemister, Is correlation energy proportional to exchange energy? 134 (1987) 27
- Rohlfing, C.M. and J.S. Binkley, The effects of basis set and electron correlation on the structure and stability of Be<sub>4</sub> and Be<sub>13</sub> 134 (1987) 110
- Rosenbauer, R.J., see K.S. Pitzer 134 (1987) 60
- Ross, R.B., W.C. Ermler, R.M. Pitzer and C.W. Kern, Ab initio calculations on electronic states of Be<sub>51</sub> and Be<sub>57</sub> clusters 134 (1987) 115
- Royer, C.A. and B. Alpert, Porphyrin dynamics in the heme-pockets of myoglobin and hemoglobin 134 (1987) 454
- Rullière, C. and A. Declémy, A picosecond transient absorption study of the intramolecular excited state proton transfer in 3-hydroxyflavone: assignment of the observed bands 134 (1987) 64
- Sahetchian, K.A., C. Chachaty, R. Rigny, A. Heiss and N. Blin, An ESR study of trapped radicals from the gas-phase thermolysis of dialkyl peroxides 134 (1987) 156



- Sahetchian, K.A., see F. Zabel 134 (1987) 433
- Salzman, W.R., Semiclassical theory of "optical activity" in the asymmetric top: off resonance 134 (1987) 622
- Samoson, A., E. Lippmaa, G. Engelhardt, U. Lohse and H.-G. Jerschkewitz, Quantitative high-resolution  $^{27}\text{Al}$  NMR: tetrahedral non-framework aluminium in hydrothermally treated zeolites 134 (1987) 589
- Sastry, M.D., see M. Kumar 134 (1987) 102
- Sauer, J., see P. Hobza 134 (1987) 418
- Sauer, J., P. Hobza, P. Čársky and R. Zahradník, Applicability of the supermolecule MP2 approach to intermolecular interactions:  $\text{He}_2$  and  $\text{Ne}_2$  134 (1987) 553
- Saunders, W.A., see W.D. Knight 134 (1987) 1
- Sceats, M.G., see J.L. Green 134 (1987) 385
- Scharf, D., J. Jortner and U. Landman, Atomic and molecular quantum mechanics by the path integral molecular dynamics method, Chem. Phys. Letters 130 (1986) 504. Erratum 134 (1987) 502
- Schneider, B., see P. Hobza 134 (1987) 418
- Sen, A.C., see M. Vala 134 (1987) 610
- Serci, S., see F. Ledda 134 (1987) 545
- Shirley, D.A., see T.A. Ferrett 134 (1987) 146
- Shizgal, B., see S. Ranganathan 134 (1987) 220
- Silverberg, M. and A. Ben-Shaul, Effects of adsorbate islanding on reaction kinetics and thermal desorption spectra: a Monte Carlo-quasichemical model 134 (1987) 491
- Simon, J., see Ph. Turek 134 (1987) 471
- Singh, J. and A. Thilagam, Transport of excitation energy at impurities distributed randomly in a three-dimensional crystal lattice 134 (1987) 600
- Singleton, D.L., see A.R. Bossard 134 (1987) 583
- Small, G.J., see J.K. Gillie 134 (1987) 316
- Smith, R.S., see M. Anselment 134 (1987) 444
- Spencer, K.M., see C.G. Zimba 134 (1987) 233
- Squire, D.W., see J.A. Dagata 134 (1987) 151
- Stephenson, J.C., see E.J. Heilweil 134 (1987) 181
- Stevens, B., Application of a finite initial separation limit to the concentration gradient model of fluorescence quenching in liquids 134 (1987) 519
- Stoicheff, B.P., see P.R. Herman 134 (1987) 209
- Strössner, K., see A. Brillante 134 (1987) 331
- Stuchebrukhov, A.A. and I.E. Khromov, IR absorption spectroscopy of highly vibrationally excited polyatomic molecules 134 (1987) 251
- Sue, J., S. Mukamel, H. Okamoto, H. Hamaguchi and M. Tasumi, Solvation dynamics and vibrational relaxation in resonance Raman and fluorescence lineshapes of tetrademethyl- $\beta$ -carotene 134 (1987) 87
- Sugawara, K., T. Nakanaga, H. Takeo and C. Matsumura, Reactions of  $\text{CF}_2$  carbene with  $\text{Br}_2$ ,  $\text{Cl}_2$  and  $\text{H}_2$  studied by means of  $\text{CO}_2$  laser photolysis and infrared diode laser spectroscopy 134 (1987) 347
- Sugeta, H., see K. Morokuma 134 (1987) 23
- Suisalu, A.P., A.L. Kamysnyi, V.N. Zakharov, L.A. Aslanov and R.A. Avarmaa, Low-temperature phosphorescence and ODMR study of 2,2'-bipyridine and  $\text{Rh}(\text{bpy})_3^3$  134 (1987) 617
- Swayambunathan, V. and E.C. Lim, Electronic spectra of 2-acetylanthracene 134 (1987) 255
- Syassen, K., see A. Brillante 134 (1987) 331
- Symons, M.C.R., see H. Chandra 134 (1987) 307

- Takeo, H., see K. Sugawara 134 (1987) 347
- Talanina, I.B., see V.M. Agranovich 134 (1987) 525
- Tam, W., see A.G. Anderson 134 (1987) 392
- Tan, K.H., see C.E. Brion 134 (1987) 76
- Tanimoto, Y., see R. Nakagaki 134 (1987) 171
- Tasumi, M., see J. Sue 134 (1987) 87
- Tellinghuisen, J. and D.K. Chakraborty, Identification and analysis of the  $D' \rightarrow A'$  transition in the emission spectrum of  $Cl_2$  134 (1987) 565
- Thilagam, A., see J. Singh 134 (1987) 600
- Tocho, J.O., see G.M. Bilmes 134 (1987) 335
- Torres-Vega, Go., see W.A. Wassam Jr. 134 (1987) 355
- Tsvetkov, Yu.D., see A.V. Astashkin 134 (1987) 438
- Turek, Ph., J.-J. André, A. Giraudeau and J. Simon, Preparation and study of a lithium phthalocyanine radical: optical and magnetic properties 134 (1987) 471
- Turro, N.J., see M.B. Zimmt 134 (1987) 549
- Urban, M., see J. Noga 134 (1987) 126
- Vala, M., D.N. Nath, M. Chowdhury, A. Wierzbicki and A.C. Sen, Dye laser circular dichroism and absorption of the optically active  $Na_3[Nd(C_4H_4O_5)_3] \cdot 2NaClO_4 \cdot 6H_2O$  single crystal 134 (1987) 610
- Vincent, M.A., see I.H. Hillier 134 (1987) 403
- Visser, O., P.J.C. Aerts, D. Hegarty and W.C. Nieuwpoort, The use of Gaussian nuclear charge distributions for the calculation of relativistic electronic wavefunctions using basis set expansions 134 (1987) 34
- Von Niessen, W., see I.H. Hillier 134 (1987) 403
- Wahnström, G. and H. Metiu, A time-dependent method for computing thermal rate constants 134 (1987) 531
- Walsh, C.A., M. Berg, L.R. Narasimhan, K.A. Littau and M.D. Fayer, Ultrafast optical dephasing in a low-temperature organic glass 134 (1987) 268
- Warner, J.W., Comparison of models for the absorption coefficient of liquids 134 (1987) 428
- Wassam Jr., W.A. and Go. Torres-Vega, Dual Lanczos transformation theory: closed set of algebraic equations connecting Lanczos parameters with moments in moment expansions of time-dependent quantities 134 (1987) 355
- Watson, C.H., see S.W. McElvany 134 (1987) 214
- Weaver, A., see G.S. Bates 134 (1987) 161
- Weir, I.J.M., see R.T. Bailey 134 (1987) 311
- Weller, H., see A. Fojtik 134 (1987) 477
- White, J.W., see I.P. Jackson 134 (1987) 397
- Wiedeman, L., M.E. Fajardo and V.A. Apkarian, Cooperative photoproduction of  $Xe_2^+ Cl^-$  in liquid  $Cl_2/Xe$  solutions: stimulated emission and gain measurements 134 (1987) 55
- Wierzbicki, A., see M. Vala 134 (1987) 610
- Wijekoon, W.M.K.P., see W.M. Hetherington III 134 (1987) 203
- Williams, I.D., see A.G. Anderson 134 (1987) 392
- Yan, Y.J., see J. Grad 134 (1987) 291
- Yersin, H., E. Gallhuber and G. Hensler, Highly resolved polarized absorption spectra of single-crystal  $[(Ru(bpy)_3)(PF_6)_2]$  134 (1987) 497

Zabel, F., K.A. Sahetchian and C. Chachaty, ESR spectra of free radicals formed during the gas-phase photo-oxidation of formaldehyde: thermal stability of the HOCH <sub>2</sub> OO radical	134 (1987) 433
Zahradnik, R., see P. Hobza	134 (1987) 418
Zahradnik, R., see J. Sauer	134 (1987) 553
Zakharov, V.N., see A.P. Suisalu	134 (1987) 617
Zhanpeisov, N.U., see O.V. Gritsenko	134 (1987) 423
Zhidomirov, G.M., see O.V. Gritsenko	134 (1987) 423
Zimba, C.G., T.B. Freedman, K.M. Spencer, X.-M. Hu and L.A. Nafie, A Soleil-Babinet compensator based Raman optical activity spectrometer: interpretation of ROA couplets in (+)-(3R)-methylcyclohexanone	134 (1987) 233
Zimmt, M.B., C. Doubleday Jr. and N.J. Turro, Substituent and solvent effects on the lifetimes of hydrocarbon-based biradicals	134 (1987) 549
Zuckermann, H., see G.D. Greenblatt	134 (1987) 593